

## 1024. Software

1. "Software" specially designed or modified for the "development", "production" or "use" of equipment controlled by 1021. or 1022.
2. "Software" for electronic devices, even when residing in an electronic device or system, enabling such devices or systems to function as a "numerical control" unit, capable of any of the following:
  - a. Coordinating simultaneously more than 4 axes for "contouring control"; **or**
  - b. "Real time processing" of data to modify tool path, feed rate and spindle data, during the machine operation, by any of the following:
    1. Automatic calculation and modification of part program data for machining in two or more axes by means of measuring cycles and access to source data; **or**
    2. "Adaptive control" with more than one physical variable measured and processed by means of a computing model (strategy) to change one or more machining instructions to optimize the process.

**Note:**

1024.2. does not control "software" specially designed or modified for the operation of machine tools not controlled by Category 1020.

## 1025. Technology

1. "Technology" according to the General Technology Note for the "development" of equipment or "software" controlled by 1021., 1022. or 1024.
2. "Technology" according to the General Technology Note for the "production" of equipment controlled by 1021. or 1022.
3. Other technology, as follows:
  - a. "Technology" for the "development" of interactive graphics as an integrated part in "numerical control" units for preparation or modification of part programmes;
  - b. Technology for metal-working manufacturing processes, as follows:
    1. Technology for the design of tools, dies or fixtures specially designed for the following processes:
      - a) "Superplastic forming";
      - b) "Diffusion bonding"; **or**
      - c) "Direct-acting hydraulic pressing";

2. Technical data consisting of process methods or parameters as listed below used to control:
  - a) "Superplastic forming" of aluminium alloys, titanium alloys or "superalloys":
    - (1) Surface preparation;
    - (2) Strain rate;
    - (3) Temperature;
    - (4) Pressure;
  - b) "Diffusion bonding" of "superalloys" or titanium alloys:
    - (1) Surface preparation;
    - (2) Temperature;
    - (3) Pressure;
  - c) "Direct-acting hydraulic pressing" of aluminium alloys or titanium alloys:
    - (1) Pressure;
    - (2) Cycle time;
  - d) "Hot isostatic densification" of titanium alloys, aluminium alloys or "superalloys":
    - (1) Temperature;
    - (2) Pressure;
    - (3) Cycle time;
- c. Technology for the "development" or "production" of hydraulic stretch-forming machines and dies therefor, for the manufacture of airframe structures;
- d. "Technology" for the "development" of generators of machine tool instructions (e.g., part programmes) from design data residing inside "numerical control" units;
- e. "Technology" for the "development" of integration "software" for incorporation of expert systems for advanced decision support of shop floor operations into "numerical control" units;
- f. Technology for the application of inorganic overlay coatings or inorganic surface modification coatings (specified in column 3 of the following Table of Deposition Techniques), to non-electronic substrates (specified in column 2 of the following table), by processes specified in column 1 of the following table and defined in the Technical Note.